

ELVIS 1.4.0.1:IP.1

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**Installation Procedures for the  
Enhanced Linked Virtual Information System  
(ELVIS)**

**Version 1.4.0.1**

**(for UB 3.0.1.6GP4)**

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## Notes

## 1. SCOPE

The purpose of this document is to provide instructions for installing the Enhanced Linked Virtual Information System (ELVIS) Version 1.4.0.1. ELVIS 1.4.0.1 is compatible with UB 3.0.1.6GP4 (on the TAC 3/4). This document is divided into the following sections:

### C INSTALLATION PREPARATION

#### C INSTALLING ELVIS 1.4.0.1

ELVIS is designed to provide access to Unified Build (UB) tactical data using any web browser compatible with the Netscape extensions to HyperText Markup Language (HTML). ELVIS version 1.4.0.1 has passed the Defense Information Systems Agency (DISA) integration and Common Operating Environment (COE) compliance testing.

## 2. INSTALLATION PREPARATION

Although the ELVIS segment does not require special procedures before installation, it is generally a good idea to make a back up of the complete ELVIS directory (assuming this is not a first-time installation). Specifically, it is recommended that the system administrator make a tar file of `/h/LVIS` directory.

ELVIS does not support multiple ELVIS installations on the same LAN. The reason is that the ELVIS user login accounts are stored in the `/h/data/global` directory (i.e., this is the path for the Gdbm process that manages these accounts), so a second ELVIS installation on the same LAN will conflict with these login accounts.

Some installation problems have been reported which are caused by incorrect permissions on SAInstaller (the installation program). The symptoms include the failure of httpd to launch when a user logs in (remember that ELVIS requires that UB be running on the host).

Set the permission `-r-sr-xr-x` (note the SUID root) on the program `/h/AcctGrps/SysAdm/progs/SAInstaller`

## 3. INSTALLING ELVIS 1.4.0.1

An ELVIS installation follows the normal procedures for a segment installation; complete the instructions below to install ELVIS. On a dual-eye (or multi-eye) host, every station attached to the host should be logged out before proceeding with the installation. When the installation is finished, a window appears with the Uniform Resource Locator (URL), consisting of the host name and service number (typically 9000). If Domain Name Server (DNS) is not running on the host, then the URL may contain the text string `@domainname`, which should be replaced with the site's domain name. The URL must be provided to each prospective user. Once the URL is recorded, press [RETURN] to continue.

- STEP 1: Type `sysadmin` and press [RETURN] at the “Workstation Console Login:” prompt.
- STEP 2: Type the `sysadmin` password at the “Password:” prompt and press [RETURN].
- STEP 3: Agree to the provisions set forth in the “Consent to Monitoring” screen by pressing [RETURN]. The **SYSTEM ADMINISTRATOR** screen appears.
- STEP 4: Insert the tape containing ELVIS 1.4.0.1 into the DAT drive and wait for the control panel LEDs to stop blinking.
- STEP 5: Select Segment Installer from the Software pull-down menu. The Segment Installer window appears.
- STEP 6: Click on the Read TOC (Table of Contents) button. The items that appear in the Table of Contents portion of the Segment Installer window are the names of software segments contained on the tape. **NOTE:** If the tape drive is attached to a remote host, then this host must be selected first using the **Select Media** button.
- STEP 7: Select **Linked Virtual Information System 1.4.0.1** from the list so that it is highlighted and click Install.
- A window appears with an hourglass indicating that the system is busy installing the selected segment(s).
- If ELVIS is already installed, a warning window will appear asking for confirmation to continue with the installation.
- STEP 8: At the end of the installation, a window appears showing a URL (Uniform Resource Locator) consisting of the `http://`, a host name, and a port number (ignore the “domainname” text that may appear in the host address). Record the URL for distribution to every ELVIS user.
- STEP 9: Press [RETURN] to continue. When the segment has completed installation, the warning “Selected segment(s) installed successfully” appears.
- STEP 10: Click the OK button to acknowledge the warning.

Following installation, the system administrator can configure ELVIS to allow users to access several different tactical GIF sizes. The default configuration allows two GIF sizes, specifically 400x300 pixels (lowres) and 600x450 pixels (medium). This configuration can be changed in the configuration script `/h/LVIS/Scripts/.cshrc.LVIS` by setting the values of the `LVIS_*_CHARTS` environmental variables, which correspond to the number of processes supporting the desired display resolutions. Be sure to set `LVIS_NUMCHARTS` to be the total number of processes supporting each resolution (this cannot exceed 8). The number of processes supporting a specific GIF size is intended to provide better response times for multiple, simultaneous browser requests. Note that two other resolutions are available, namely 200x100 pixels (tiny) and a 800x600 (high); the high resolution yields poorer response rates since the CPU must build larger GIFs and the LAN/WAN network must transport larger GIF files. Additional information is available in the System Administrator Guide in the ELVIS

Configuration Options section.

The system administrator can also configure ELVIS to access different CGI programs whenever the user selects any of the Status of Forces (SOF) options, namely SORTS, CASREP, EMPSKD, and MOVREP. The configuration script `/h/LVIS/Scripts/.cshrc.LVIS` contains four environmental variables that specify the CGI program to use whenever an SOF options is selected (see the System Administrator Guide for more details). Be sure to maintain the indicated format for setting these variables. Note that if these variables are changed and `httpd` is already running, it will be necessary to reboot the host since the daemon reads this information when launched.

The VCC GIF has been changed to provide a more modern appearance. The thumbnail charts in the new VCC will not correspond to the maps behind them (i.e., as configured by `sysadmin`). In order to re-insert the proper thumbnails in the VCC, login as `sysadmin`, click on each thumbnail, and then exit (there is no need to change the map). This will reset the thumbnails in the VCC, although it may be necessary to clear the browser cache in order to force a reload of the VCC.

## **4. RE-LOCATING ELVIS TO ANOTHER LAN**

It may be desirable to duplicate an existing ELVIS server on another host (which must be on another LAN segment because two ELVIS servers cannot share the `/h/data/global` directory). There are two methods for duplicating an ELVIS server on another LAN:

- C Perform a normal ELVIS installation from the segment tape and then copy the file `/h/LVIS/data/etc/02` and the two directories `/h/LVIS/data/pub/users` and `/h/LVIS/data/global/UB/GDBs/LVISUsers`. These contain the critical user account and configuration information.
- C Or, copy the contents of `/h/LVIS` to the new host and then perform a normal ELVIS installation from the segment tape (this is necessary to ensure that all symbolic links are established and `/etc/services` is updated).

## Notes